

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 15, 2005, 03:49:50 ; Search time 6173 Seconds  
(without alignments)  
11028.605 Million cell updates/sec

Title: US-10-698-041-1

Perfect score: 1405

Sequence: 1 aaaatgcctggctggttcg.....cctacatctgcaacgtgaat 1405

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : GenEmbl:\*

1: gb\_ba:\*

2: gb\_htg:\*

3: gb\_in:\*

4: gb\_om:\*

5: gb\_ov:\*

6: gb\_pat:\*

7: gb\_ph:\*

8: gb\_pl:\*

9: gb\_pr:\*

10: gb\_ro:\*

11: gb\_sts:\*

12: gb\_sy:\*

13: gb\_un:\*

14: gb\_vi:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

8

Result	Query					Description
No.	Score	Match	Length	DB	ID	Description
1	958.4	68.2	5925	6	AR268191	AR268191 Sequence
2	958.4	68.2	5925	6	AX009712	AX009712 Sequence

3	958.4	68.2	5925	6	AX010972	AX010972 Sequence
4	937.8	66.7	2186	6	AX744004	AX744004 Sequence
5	937.8	66.7	2790	6	AX744002	AX744002 Sequence
6	937.8	66.7	2810	6	AX744006	AX744006 Sequence
7	936.4	66.6	1440	6	AX744010	AX744010 Sequence
8	901.4	64.2	4691	6	AR370701	AR370701 Sequence
9	901.4	64.2	6166	6	AR370702	AR370702 Sequence
10	779.8	55.5	6563	6	AR116667	AR116667 Sequence
11	779.8	55.5	6563	6	CQ802871	CQ802871 Sequence
12	779.8	55.5	6563	6	AR233026	AR233026 Sequence
13	779.8	55.5	6563	6	AR237957	AR237957 Sequence
14	779.8	55.5	6563	6	BD069220	BD069220 Antibody
15	751.8	53.5	2000	6	AX774567	AX774567 Sequence
16	747.4	53.2	2178	6	AR048108	AR048108 Sequence
17	747.4	53.2	2178	6	AR054190	AR054190 Sequence
18	747.4	53.2	2178	6	BD144975	BD144975 Method fo
19	747.4	53.2	2178	6	BD145002	BD145002 Human gro
20	739.6	52.6	1951	6	AX661181	AX661181 Sequence
21	739.6	52.6	6072	6	AX815239	AX815239 Sequence
22	739.6	52.6	6072	6	BD069267	BD069267 Anti-VEGF
23	738.6	52.6	2143	6	AR123435	AR123435 Sequence
24	738.6	52.6	2143	6	BD132751	BD132751 Antibody
25	738.6	52.6	2143	6	AR261841	AR261841 Sequence
26	738.6	52.6	2143	6	AR491893	AR491893 Sequence
27	738.6	52.6	2143	6	BD062169	BD062169 Protein r
28	738.6	52.6	6550	6	AR126813	AR126813 Sequence
29	738.6	52.6	6550	6	AR162111	AR162111 Sequence
30	738.6	52.6	6550	6	BD224164	BD224164 Method of
31	738.6	52.6	6550	6	AX832563	AX832563 Sequence
32	737.4	52.5	2050	6	CQ861227	CQ861227 Sequence
33	735.2	52.3	6072	6	BD010368	BD010368 Humanized
34	734.6	52.3	6127	6	AR091716	AR091716 Sequence
35	734.6	52.3	6127	6	AR124896	AR124896 Sequence
36	734.6	52.3	6127	6	AR169096	AR169096 Sequence
37	734.6	52.3	6127	6	BD193235	BD193235 Improved
38	734.6	52.3	6127	6	AR454349	AR454349 Sequence
39	734.6	52.3	6127	6	AR527679	AR527679 Sequence
40	689.4	49.1	2239	6	CQ877236	CQ877236 Sequence
41	689.4	49.1	2383	6	CQ877237	CQ877237 Sequence
42	638.2	45.4	784	9	AB064058	AB064058 Homo sapi
43	633.4	45.1	794	9	AB064136	AB064136 Homo sapi
44	632.2	45.0	3169	6	A57359	A57359 Sequence 5
45	632.2	45.0	3169	6	AR096536	AR096536 Sequence

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OM nucleic - nucleic search, using sw model

Run on: April 15, 2005, 03:39:44 ; Search time 814 Seconds  
(without alignments)  
10217.735 Million cell updates/sec

Title: US-10-698-041-1

Perfect score: 1405

Sequence: 1 aaaaatgcctggctggttcg.....cctacatctgcaacgtgaat 1405

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : N\_Geneseq\_16Dec04:\*

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4: geneseqn2001as:\*

5: geneseqn2001bs:\*

6: geneseqn2002as:\*

7: geneseqn2002bs:\*

8: geneseqn2003as:\*

9: geneseqn2003bs:\*

10: geneseqn2003cs:\*

11: geneseqn2003ds:\*

12: geneseqn2004as:\*

13: geneseqn2004bs:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query				Description
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3	1003	71.4	1514	12	ADG64751	Adg64751 Humanised
4	985.8	70.2	1424	13	ADR16815	Adr16815 Human bre
5	958.4	68.2	5924	3	AAZ38921	Aaz38921 hCAT1 bin
6	958.4	68.2	5925	3	AAZ38770	Aaz38770 hCAT1 clo
7	937.8	66.7	2186	10	ADD26469	Add26469 Phagemid
8	937.8	66.7	2790	10	ADD26467	Add26467 Phagemid
9	937.8	66.7	2810	10	ADD26471	Add26471 Phagemid
10	936.4	66.6	1440	10	ADD26475	Add26475 Phagemid

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11	923	65.7	1539	8	AAD56202	Aad56202 x5 antibo
12	916.6	65.2	1539	8	AAD56203	Aad56203 x5 antibo
13	906.2	64.5	1680	12	ADF83552	Adf83552 Anti-tete
14	901.4	64.2	4691	2	AAQ92546	Aaq92546 pComb3 ex
15	901.4	64.2	6166	2	AAQ92547	Aaq92547 Expressio
16	884.8	63.0	10251	10	ABZ37478	Abz37478 CJRA05 nu
17	856	60.9	1526	12	ADN97514	Adn97514 Artificia
18	851.8	60.6	1551	12	ADN97496	Adn97496 Artificia
19	834.8	59.4	1566	12	ADN97494	Adn97494 Artificia
20	834	59.4	2154	12	ADN97490	Adn97490 Artificia
21	820.8	58.4	1572	12	ADN97492	Adn97492 Artificia
22	820	58.4	2160	12	ADN97488	Adn97488 Artificia
23	796.8	56.7	5679	13	ADP79576	Adp79576 Plasmid p
24	779.8	55.5	6563	2	AAV44953	Aav44953 Anti-IL-8
25	779.8	55.5	6563	2	AAX90579	Aax90579 p6G4V11N3
26	779.8	55.5	6563	3	AAZ87970	Aaz87970 Nucleotid
27	779.8	55.5	6563	3	AAC65509	Aac65509 Anti-IL-8
28	779.8	55.5	6563	8	ABX63890	Abx63890 Expressio
29	779.8	55.5	6563	8	ABX81417	Abx81417 Vector p6
30	779.8	55.5	6563	10	AAD59311	Aad59311 p6G4V11 N
31	767.8	54.6	6400	3	AAA53389	Aaa53389 Expressio
32	751.8	53.5	2000	9	ACC70052	Acc70052 Nucleotid
33	747.4	53.2	2178	2	AAQ25592	Aaq25592 Encodes 4
34	747.4	53.2	2178	2	AAV81689	Aav81689 4D5 Fab m
35	739.6	52.6	6072	2	AAV63493	Aav63493 Fab-displ
36	739.6	52.6	6072	6	ABN85200	Abn85200 Phage-dis
37	738.6	52.6	2143	2	AAX03840	Aax03840 Plasmid p
38	738.6	52.6	2143	5	AAF31463	Aaf31463 ps 1130 e
39	737.4	52.5	2050	13	ADR47463	Adr47463 pTTOD(gh3
40	735.2	52.3	6072	2	AAV71266	Aav71266 VEGF huma
41	734.6	52.3	6127	2	AAX07474	Aax07474 Mus muscu
42	734.6	52.3	6127	4	AAF69253	Aaf69253 Expressio
43	734.6	52.3	6127	12	ADN07022	Adn07022 F(ab)-pha
44	733.2	52.2	1951	6	ABQ73919	Abq73919 Plasmid p
45	732.8	52.2	1477	12	ADQ07674	Adq07674 Nucleotid

## ALIGNMENTS

RESULT 1  
 ADR16814  
 ID ADR16814 standard; DNA; 1405 BP.  
 XX  
 AC ADR16814;  
 XX  
 DT 21-OCT-2004 (first entry)  
 XX  
 DE Human breast cancer-specific antibody Fab fragment DNA, Fab14.6.19.  
 XX  
 KW Breast cancer; diagnosis; therapy; human; Fab 14.6.19; gene; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT CDS 41. .700  
 FT /\*tag= a  
 FT /product= "Human breast cancer-specific antibody Fab  
 FT fragment Fab14.6.19"  
 FT /partial  
 FT /note= "No start codon"  
 FT CDS 797. .1147  
 FT /\*tag= b

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FT /product= "Human breast cancer-specific antibody Fab  
FT fragment Fab14.6.19"  
FT /partial  
FT /note= "No start and stop codon"  
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XX  
PN US2004151724-A1.  
XX  
PD 05-AUG-2004.  
XX  
PF 30-OCT-2003; 2003US-00698041.  
XX  
PR 31-OCT-2002; 2002US-0423052P.  
XX  
PA (CORO/) CORONELLA-WOOD J.  
XX  
PI Coronella-Wood J;  
XX  
DR WPI; 2004-570704/55.  
DR P-PSDB; ADR16816, ADR16817.  
XX  
PT New isolated polynucleotides encoding breast cancer-specific antibody Fab  
PT fragments 14.6.19 and 14.6.20, useful as clinical reagents for diagnosing  
PT or treating breast cancer.  
XX  
PS Claim 1; SEQ ID NO 1; 36pp; English.  
XX  
CC The invention provides a breast cancer-specific antibody fragment  
CC polynucleotide and its corresponding polypeptide. The invention is useful  
CC as clinical reagents for the diagnosis and therapy of breast cancer. The  
CC present sequence is human breast cancer-specific antibody Fab fragment  
CC DNA, Fab14.6.19.  
XX  
SQ Sequence 1405 BP; 326 A; 405 C; 381 G; 293 T; 0 U; 0 Other;  
  
Query Match 100.0%; Score 1405; DB 13; Length 1405;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1405; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 1 AAAATGCCTGGCTGGTTTCGCTACCGTGGCCCAAGCGGCCGAGCTCGTGATGACTCAGTC 60  
Db 1 AAAATGCCTGGCTGGTTTCGCTACCGTGGCCCAAGCGGCCGAGCTCGTGATGACTCAGTC 60  
  
Qy 61 TCCACTCTCCCTGCCCGTACCCCTGGAGAGGCCGCCCTCCATCTCCTGCAGGTCTAGTCA 120  
Db 61 TCCACTCTCCCTGCCCGTACCCCTGGAGAGGCCGCCCTCCATCTCCTGCAGGTCTAGTCA 120  
  
Qy 121 GAGTCTCCTGCATAGTAATGGATACAACATTTGGATTGGTACCTGCAGAAGCCAGGGCA 180  
Db 121 GAGTCTCCTGCATAGTAATGGATACAACATTTGGATTGGTACCTGCAGAAGCCAGGGCA 180  
  
Qy 181 GTCTCCACAGCTCCTGATCTATTGGGTTTAATCGGGCCTCCGGGGTCCCTGACAGGTT 240  
Db 181 GTCTCCACAGCTCCTGATCTATTGGGTTTAATCGGGCCTCCGGGGTCCCTGACAGGTT 240  
  
Qy 241 CAGTGGCAGTGGATCAGGCACAGATTATACTGAAAATCAGCAGAGTGGAGGCTGAGGA 300  
Db 241 CAGTGGCAGTGGATCAGGCACAGATTATACTGAAAATCAGCAGAGTGGAGGCTGAGGA 300  
  
Qy 301 TGTTGGGTTTATTACTGCATGCAAGGTCTACAAACTCCTAGGACCTCGGCCAAGGGAC 360  
Db 301 TGTTGGGTTTATTACTGCATGCAAGGTCTACAAACTCCTAGGACCTCGGCCAAGGGAC 360

Qy	361	ACGACTGGAGATTAAACGAACGTGGCTGCACCATCTGTCTCATCTTCCGCCATCTGA	420
Db	361	ACGACTGGAGATTAAACGAACGTGGCTGCACCATCTGTCTCATCTTCCGCCATCTGA	420
Qy	421	TGAGCAGTTGAAATCTGGAACGTGCCTCTGTTGTGCTGCTGTAATAACTTCTATCCAG	480
Db	421	TGAGCAGTTGAAATCTGGAACGTGCCTCTGTTGTGCTGCTGTAATAACTTCTATCCAG	480
Qy	481	AGAGGCCAAAGTACAGTGGAAAGGTGGATAACGCCCTCCAATCGGTAACCTCCAGGAGAG	540
Db	481	AGAGGCCAAAGTACAGTGGAAAGGTGGATAACGCCCTCCAATCGGTAACCTCCAGGAGAG	540
Qy	541	TGTCACAGAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCTGACGCTGAG	600
Db	541	TGTCACAGAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCTGACGCTGAG	600
Qy	601	CAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCGAAGTCACCCATCAGGGCTGAG	660
Db	601	CAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCGAAGTCACCCATCAGGGCTGAG	660
Qy	661	CTTGCCCGTACAAAGAGCTTCAACAGGGAGAGTGTAGTTCTAGATAATTAAATTAGGA	720
Db	661	CTTGCCCGTACAAAGAGCTTCAACAGGGAGAGTGTAGTTCTAGATAATTAAATTAGGA	720
Qy	721	GGAATTAAAATGAAATACCTATTGCCTACGGCAGCCGCTGGATTGTTATTACTCGCTGC	780
Db	721	GGAATTAAAATGAAATACCTATTGCCTACGGCAGCCGCTGGATTGTTATTACTCGCTGC	780
Qy	781	CCAACCAGCCATGGCCAGGTGCAGCTGCAGGAGTCCGGGGAGGCTTAGTTCAGCCTGG	840
Db	781	CCAACCAGCCATGGCCAGGTGCAGCTGCAGGAGTCCGGGGAGGCTTAGTTCAGCCTGG	840
Qy	841	GGGGTCCCTGAGACTCTCTGTGAAGCCTCTGGATAACACCTTCAGCAATTACTGGATGCA	900
Db	841	GGGGTCCCTGAGACTCTCTGTGAAGCCTCTGGATAACACCTTCAGCAATTACTGGATGCA	900
Qy	901	CTGGGTCCGCCAACCTCCAGGGAAAGGGGCTGGTGTGGTCTCACGTATTAATGAAGATGG	960
Db	901	CTGGGTCCGCCAACCTCCAGGGAAAGGGGCTGGTGTGGTCTCACGTATTAATGAAGATGG	960
Qy	961	GAGTATCACAAACGACGCGACTCCGTGAAGGGCGATCCACCATCTCCAGAGACAACGC	1020
Db	961	GAGTATCACAAACGACGCGACTCCGTGAAGGGCGATCCACCATCTCCAGAGACAACGC	1020
Qy	1021	CAAGAACACGCTGTATCTGAAATGAACAGTCTGAGAGCCGAGGACACGGCTGTCTATT	1080
Db	1021	CAAGAACACGCTGTATCTGAAATGAACAGTCTGAGAGCCGAGGACACGGCTGTCTATT	1080
Qy	1081	CTGTACACGAGATATTGGGGTCGTGATGCTCACTGGGCCAGGGAACCTGGTCACCGT	1140
Db	1081	CTGTACACGAGATATTGGGGTCGTGATGCTCACTGGGCCAGGGAACCTGGTCACCGT	1140
Qy	1141	CTCCTAGCCTCCACCAAGGGCCATCGGTCTTCCCCCTGGCACCCCTCCCAAGAGCAC	1200
Db	1141	CTCCTAGCCTCCACCAAGGGCCATCGGTCTTCCCCCTGGCACCCCTCCCAAGAGCAC	1200
Qy	1201	CTCTGGGGCACAGCGGCCCTGGCTGGCAAGGACTACTTCCCCGAACCGGTGAC	1260
Db	1201	CTCTGGGGCACAGCGGCCCTGGCTGGCAAGGACTACTTCCCCGAACCGGTGAC	1260
Qy	1261	GGTGTCTGGAACTCAGGCCCTGACCAGCGGGTGCACACCTCCGGCTGTCTTACA	1320
Db	1261	GGTGTCTGGAACTCAGGCCCTGACCAGCGGGTGCACACCTCCGGCTGTCTTACA	1320

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Qy 1321 GTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGCAC 1380  
|||  
Db 1321 GTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGCAC 1380  
|||  
Qy 1381 CCAGACCTACATCTGCAACGTGAAT 1405  
|||  
Db 1381 CCAGACCTACATCTGCAACGTGAAT 1405

us-10-698-041-1.rnpb

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 15, 2005, 10:58:17 ; Search time 877 Seconds  
(without alignments)  
9719.189 Million cell updates/sec

Title: US-10-698-041-1  
Perfect score: 1405  
Sequence: 1 aaaatgcctggctggttcg.....cctacatctgcaacgtgaat 1405

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 5622541 seqs, 3033355566 residues

Total number of hits satisfying chosen parameters: 11245082

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published\_Applications\_NA:  
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2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:\*

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4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:\*

5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq:\*

6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq:\*

7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq:\*

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14: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq:\*

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18: /cgn2\_6/ptodata/2/pubpna/US10F\_PUBCOMB.seq:\*

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22: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1405	100.0	1405	18	US-10-698-041-1	Sequence 1, Appli

us-10-698-041-1.rnpb						
2	1003	71.4	1514	17	US-10-251-215-38	Sequence 38, Appl
3	985.8	70.2	1424	18	US-10-698-041-2	Sequence 2, Appl
4	958.4	68.2	5925	16	US-10-235-175-78	Sequence 78, Appl
5	923	65.7	1539	18	US-10-492-729-4	Sequence 4, Appl
6	916.6	65.2	1539	18	US-10-492-729-12	Sequence 12, Appl
7	884.8	63.0	10251	17	US-10-045-674-582	Sequence 582, App
8	856	60.9	1526	18	US-10-679-620-87	Sequence 87, Appl
9	851.8	60.6	1551	18	US-10-679-620-69	Sequence 69, Appl
10	834.8	59.4	1566	18	US-10-679-620-67	Sequence 67, Appl
11	834	59.4	2154	18	US-10-679-620-63	Sequence 63, Appl
12	820.8	58.4	1572	18	US-10-679-620-65	Sequence 65, Appl
13	820	58.4	2160	18	US-10-679-620-61	Sequence 61, Appl
14	779.8	55.5	6563	10	US-09-726-258-61	Sequence 61, Appl
15	739.6	52.6	1951	13	US-10-011-125-1	Sequence 1, Appl
16	739.6	52.6	6072	9	US-09-056-160B-99	Sequence 99, Appl
17	739.6	52.6	6072	16	US-10-234-671-99	Sequence 99, Appl
18	738.6	52.6	2143	9	US-09-940-166A-5	Sequence 5, Appl
19	738.6	52.6	2143	18	US-10-762-967-5	Sequence 5, Appl
20	734.6	52.3	6127	9	US-09-920-171-1	Sequence 1, Appl
21	734.6	52.3	6127	15	US-10-113-996-1	Sequence 1, Appl
22	734.6	52.3	6127	18	US-10-791-619-1	Sequence 1, Appl
23	732.8	52.2	1477	19	US-10-728-420B-116	Sequence 116, App
c	732.8	52.2	1477	19	US-10-728-420B-117	Sequence 117, App
24	681.6	48.5	1730	14	US-10-194-975-108	Sequence 108, App
25	628	44.7	720	17	US-10-292-088-15	Sequence 15, Appl
26	627.8	44.7	720	17	US-10-292-088-63	Sequence 63, Appl
28	624.8	44.5	720	17	US-10-292-088-7	Sequence 7, Appl
29	624.8	44.5	720	17	US-10-292-088-101	Sequence 101, App
30	624.4	44.4	720	17	US-10-292-088-55	Sequence 55, Appl
31	623.2	44.4	720	17	US-10-292-088-79	Sequence 79, Appl
32	621.6	44.2	720	17	US-10-292-088-39	Sequence 39, Appl
33	620	44.1	720	17	US-10-292-088-31	Sequence 31, Appl
34	618.8	44.0	4793	18	US-10-737-290-141	Sequence 141, App
35	612.6	43.6	1081	17	US-10-466-164-33	Sequence 33, Appl
36	612.2	43.6	657	10	US-09-972-656-103	Sequence 103, App
37	609.8	43.4	649	19	US-10-714-079C-8	Sequence 8, Appl
38	606.2	43.1	944	17	US-10-108-260A-1585	Sequence 1585, Ap
39	604.6	43.0	968	10	US-09-992-600A-7	Sequence 7, Appl
40	604.6	43.0	968	10	US-09-924-340-7	Sequence 7, Appl
41	604.6	43.0	968	10	US-09-992-095B-7	Sequence 7, Appl
42	604.6	43.0	968	10	US-09-999-570-7	Sequence 7, Appl
43	604.6	43.0	968	14	US-10-000-489-7	Sequence 7, Appl
44	604.6	43.0	968	14	US-10-000-986-7	Sequence 7, Appl
45	604.6	43.0	968	16	US-10-154-678-7	Sequence 7, Appl

## ALIGNMENTS

### RESULT 1

US-10-698-041-1

; Sequence 1, Application US/10698041

Publication No. US20040151724A1

#### GENERAL INFORMATION:

APPLICANT: Coronella-Wood, Julia

TITLE OF INVENTION: Antibody Fab Fragments Specific for Breast Cancer

FILE REFERENCE: 5051.057

CURRENT APPLICATION NUMBER: US/10/698,041

CURRENT FILING DATE: 2003-10-30

PRIOR APPLICATION NUMBER: US 60/423,052

PRIOR FILING DATE: 2002-10-31

NUMBER OF SEQ ID NOS: 6

; SOFTWARE: PatentIn version 3.2

us-10-698-041-1.rnpb

SEQ ID NO 1  
 LENGTH: 1405  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 US-10-698-041-1

Query Match 100.0%; Score 1405; DB 18; Length 1405;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 1405; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1 AAAATGCCTGGCTGGTTTCGCTACCGTGGCCAGGCAGGCGAGCTCGTGATGACTCAGTC	60
Db	1 AAAATGCCTGGCTGGTTTCGCTACCGTGGCCAGGCAGGCGAGCTCGTGATGACTCAGTC	60
Qy	61 TCCACTCTCCCTGCCGTACCCCTGGAGAGCCGGCTCCATCTCCTGCAGGTCTAGTCA	120
Db	61 TCCACTCTCCCTGCCGTACCCCTGGAGAGCCGGCTCCATCTCCTGCAGGTCTAGTCA	120
Qy	121 GAGTCTCCTGCATAGTAATGGATACAACATTTGGATTGGTACCTGCAGAACGCCAGGGCA	180
Db	121 GAGTCTCCTGCATAGTAATGGATACAACATTTGGATTGGTACCTGCAGAACGCCAGGGCA	180
Qy	181 GTCTCACAGCTCCTGATCTATTGGGTTTAATCGGGCCTCCGGGGTCCCTGACAGGTT	240
Db	181 GTCTCACAGCTCCTGATCTATTGGGTTTAATCGGGCCTCCGGGGTCCCTGACAGGTT	240
Qy	241 CAGTGGCAGTGGATCAGGCACAGATTACACTGAAAATCAGCAGAGTGGAGGCTGAGGA	300
Db	241 CAGTGGCAGTGGATCAGGCACAGATTACACTGAAAATCAGCAGAGTGGAGGCTGAGGA	300
Qy	301 TGTTGGGGTTTATTACTGCATGCAAGGTCTACAAACTCCTAGGACCTCGGCCAAGGGAC	360
Db	301 TGTTGGGGTTTATTACTGCATGCAAGGTCTACAAACTCCTAGGACCTCGGCCAAGGGAC	360
Qy	361 ACGACTGGAGATTAACGAACGTGGCTGCACCATCTGTTCATCTTCCCACATCTGA	420
Db	361 ACGACTGGAGATTAACGAACGTGGCTGCACCATCTGTTCATCTTCCCACATCTGA	420
Qy	421 TGAGCAGTTGAAATCTGAACTGCCTCTGTTGTGCTGCTGAATAACTTCTATCCCAG	480
Db	421 TGAGCAGTTGAAATCTGAACTGCCTCTGTTGTGCTGCTGAATAACTTCTATCCCAG	480
Qy	481 AGAGGCCAAAGTACAGTGGAAAGGTGGATAACGCCCTCCAATCGGTAACTCCCAGGAGAG	540
Db	481 AGAGGCCAAAGTACAGTGGAAAGGTGGATAACGCCCTCCAATCGGTAACTCCCAGGAGAG	540
Qy	541 TGTACAGAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCTGACGCTGAG	600
Db	541 TGTACAGAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCTGACGCTGAG	600
Qy	601 CAAAGCAGACTACGAGAACACAAAGTCTACGCCCTGCGAAGTCACCCATCAGGGCTGAG	660
Db	601 CAAAGCAGACTACGAGAACACAAAGTCTACGCCCTGCGAAGTCACCCATCAGGGCTGAG	660
Qy	661 CTTGCCGTACAAAGAGCTTCAACAGGGAGAGTGTAGTTCTAGATAATTAGGA	720
Db	661 CTTGCCGTACAAAGAGCTTCAACAGGGAGAGTGTAGTTCTAGATAATTAGGA	720
Qy	721 GGAATTAAAATGAAATACCTATTGCCCTACGGCAGCCGCTGGATTGTTATTACTCGCTGC	780
Db	721 GGAATTAAAATGAAATACCTATTGCCCTACGGCAGCCGCTGGATTGTTATTACTCGCTGC	780
Qy	781 CCAACCAGCCATGGCCAGGTGCAGCTGCAGGAGTCCGGGGAGGCTAGTTAGCCTGG	840

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Db 781 CCAACCAGCCATGGCCAGGTGCAGCTGCAGGAGTCCGGGGAGGCTTAGTCAGCCTGG 840  
Qy 841 GGGGTCCCTGAGACTCTCCTGTGAAGCCTCTGGATAACACCTTCAGCAATTACTGGATGCA 900  
Db 841 GGGGTCCCTGAGACTCTCCTGTGAAGCCTCTGGATAACACCTTCAGCAATTACTGGATGCA 900  
Qy 901 CTGGTCCGCCAACCTCCAGGGAAAGGGCTGGTGGGCTCACGTATTAATGAAGATGG 960  
Db 901 CTGGTCCGCCAACCTCCAGGGAAAGGGCTGGTGGGCTCACGTATTAATGAAGATGG 960  
Qy 961 GAGTATCACAAACGACGCCGACTCCGTGAAGGGCCATCCACCATCTCCAGAGACAACGC 1020  
Db 961 GAGTATCACAAACGACGCCGACTCCGTGAAGGGCCATCCACCATCTCCAGAGACAACGC 1020  
Qy 1021 CAAGAACACGCTGTATCTGAAATGAACAGTCTGAGAGCCGAGGACACGGCTGTCTATT 1080  
Db 1021 CAAGAACACGCTGTATCTGAAATGAACAGTCTGAGAGCCGAGGACACGGCTGTCTATT 1080  
Qy 1081 CTGTACACGAGATATTGGGGTCGTGATGCTCACTGGGCCAGGGAACCCCTGGTACCGT 1140  
Db 1081 CTGTACACGAGATATTGGGGTCGTGATGCTCACTGGGCCAGGGAACCCCTGGTACCGT 1140  
Qy 1141 CTCTCAGCCTCCACCAAGGGCCATCGGTTTCCCCCTGGCACCCCTCCTCCAAGAGCAC 1200  
Db 1141 CTCTCAGCCTCCACCAAGGGCCATCGGTTTCCCCCTGGCACCCCTCCTCCAAGAGCAC 1200  
Qy 1201 CTCTGGGGCACAGCGCCCTGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGAC 1260  
Db 1201 CTCTGGGGCACAGCGCCCTGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGAC 1260  
Qy 1261 GGTGTCGTGAACTCAGGCGCCCTGACCAGCGCGTGCACACCTTCCGGCTGTCTACA 1320  
Db 1261 GGTGTCGTGAACTCAGGCGCCCTGACCAGCGCGTGCACACCTTCCGGCTGTCTACA 1320  
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Db 1321 GTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTACCGTGCCTCCAGCAGCTTGGCAC 1380  
Qy 1381 CCAGACCTACATCTGCAACGTGAAT 1405  
Db 1381 CCAGACCTACATCTGCAACGTGAAT 1405

RESULT 2

US-10-251-215-38

; Sequence 38, Application US/10251215

; Publication No. US20030219839A1

; GENERAL INFORMATION:

; APPLICANT: Bowdish, Katherine S.

; APPLICANT: Kretz-Rommel, Anke

; APPLICANT: Frederickson, Shana

; TITLE OF INVENTION: ANTI-PDGF ANTIBODIES AND METHODS FOR PRODUCING ENGINEERED

; TITLE OF INVENTION: ANTIBODIES

; FILE REFERENCE: 1087-36

; CURRENT APPLICATION NUMBER: US/10/251,215

; CURRENT FILING DATE: 2002-09-20

; PRIOR APPLICATION NUMBER: US 60/323,537

; PRIOR FILING DATE: 2001-09-20

; PRIOR APPLICATION NUMBER: US 60/323,544

; PRIOR FILING DATE: 2001-09-20

; PRIOR APPLICATION NUMBER: US 60/379,980

; PRIOR FILING DATE: 2002-05-13

us-10-698-041-1.rnpb

NUMBER OF SEQ ID NOS: 79  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 38  
LENGTH: 1514  
TYPE: DNA  
ORGANISM: artificial sequence  
FEATURE:  
OTHER INFORMATION: Assembled Degenerate Oligonucleotides  
US-10-251-215-38

Query Match 71.4%; Score 1003; DB 17; Length 1514;  
Best Local Similarity 83.7%; Pred. No. 7e-281;  
Matches 1163; Conservative 25; Mismatches 165; Indels 36; Gaps 4;

Qy	35	GC GG CG AG CT CGT GAT G ACT C AGT C TCC A CT C TCC CT G C C G T C ACC C C T G G AG AG C C G	94
Db	15	GGG C C G AG AT CC AG AT G ACC AG T CT CC AT C C T C C T G T C G AT CT G TAG G AG AC AG A	74
Qy	95	GC CT CC AT CT C C T G C AGG T C AG T C AG AG T C T C C T G C AT AG T A AT GG A TA C A A C T A T T G	154
Db	75	GTC ACC AT C ACT T G C C R G G S A G T C A G R G C A T T A G T ----- A R Y T A C T T A	119
Qy	155	GATT GGT ACCT G CAG A AG C C A G G G C A G T C T C C A C A G C T C C T G A T C T A T T G G T T T A A T	214
Db	120	GC CT GGT AT CAG CAG A A C C A G G G A A S Y T C T A A G C T C C T G A T C T A T G A T G C A T C C G A T	179
Qy	215	C G G G C C T C C G G G T C C C T G A C A G G T T C A G T G G C A G T G G A T C A G G C A C A G A T T A C A C T G	274
Db	180	C T G G C A T C T G G G T C C C A T C T C G G T T C A R T G G C A G T G G A T C T G G A C A G A T T W C A C T C T C	239
Qy	275	A A A A T C A G C A G A G T G G A G G C T G A G G A T G T T G G G T T T A T T A C T G C A T G C A A G -----	326
Db	240	A C C A T C A G C A G C C T G C A G Y S T G A A G A T G Y T G C A A C T T A T T A C T G T C A A C A G G G T T A A G T	299
Qy	327	-G T C T A C A A A C T C C T A G G A C C T T C G G C C A A G G G A C A C G A C T G G A G A T T A A C G A A C T G T G	385
Db	300	A G T A G T A A T G T T G A T A A T A C T T C G G C G G A G G G A C C G A G G T G G T C G T C A A A C G A A C T G T G	359
Qy	386	G C T G C A C C A T C T G T C T T C A T C T T C C C G C C A T C T G A T G A G C A G T T G A A A T C T G G A A C T G C C	445
Db	360	G C T G C A C C A T C T G T C T T C A T C T T C C C G C C A T C T G A T G A G C A G T T G A A A T C T G G A A C T G C C	419
Qy	446	T C T G T T G T G C C T G C T G A A T A A C T T C T A T C C C A G A G A G G C C A A A G T A C A G T G G A A G G T G	505
Db	420	T C T G T T G T G C C T G C T G A A T A A C T T C T A T C C C A G A G A G G C C A A A G T A C A G T G G A A G G T G	479
Qy	506	G A T A A C G C C C T C C A A T C G G G T A A C T C C C A G G A G A G T G T C A C A G A G C A G G A C A G G A C	565
Db	480	G A T A A C G C C C T C C A A T C G G G T A A C T C C C A G G A G A G T G T C A C A G A G C A G G A C A G G A C	539
Qy	566	A G C A C C T A C A G C C T C A G C A G C A C C C T G A C G C T G A G C A A A G C A G A C T A C G A G A A A C A C A A A	625
Db	540	A G C A C C T A C A G C C T C A G C A G C A C C C T G A C G C T G A G C A A A G C A G A C T A C G A G A A A C A C A A A	599
Qy	626	G T C T A C G C C T G C G A A G T C A C C C A T C A G G G C T G A G C T T G C C C G T C A C A A A G A G C T T C A A C	685
Db	600	G T C T A C G C C T G C G A A G T C A C C C A T C A G G G C T G A G C T T G C C C G T C A C A A A G A G C T T C A A C	659
Qy	686	A G G G G A G A G T G T T A G T T C T A G A T A A T T A C T T A G G G A A T T T A A A T G A A A T A C C T A T T G	745
Db	660	A G G G G A G A G T G T T A G T T C T A G A T A A T T A C T T A G G G A A T T T A A A T G A A A T A C C T A T T G	719
Qy	746	C C T A C G G C A G C C G C T G G A T T G T T A T T A C T C G C T G C C C A A C C A G C C A T G G C C C A G G T G C A G	805

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Db	720	CCTACGGCAGCCGCTGGATTCTGCTGCCAACCAGCCATGGCGAGGTGCAG	779
Qy	806	CTGCAGGAGTCCGGGGGAGGCTTAGTCAGCCTGGGGGTCCTGAGACTCTCCTGTGAA	865
Db	780	CTGGTGGAGTCTGGGGGAGGCCTGGTCAAGCCTGGGGGTCCTGAGACTCTCCTGTGCA	839
Qy	866	GCCTCTGGATACACCTTCAGCAATTACTGGATGACTGGTCCGCCAACCTCCAGGGAAG	925
Db	840	GCCTCTGGATTWCYCYYCAGTARMWATRKMATRARYTGGTCCGCCAGGCTCCAGGGAAG	899
Qy	926	GGGCTGGTGTGGGTCTCACGTATTAATGAAGATGGGAGTATCACAAACGACGCGGACTCC	985
Db	900	GGGCTGGAGTGGRTCKSATTCTTAAT---ACTGGTAGTAGCGCATACTACCGCGAGCTGG	956
Qy	986	GTGAAGGGCCGATCCACCATCTCCAGAGACAACGCCAACGCTGTATCTGAAATG	1045
Db	957	CGGGAAAGCCGATYCACCATCTCCAGAGACAMGCCAACGAACTCASTGTATCTGCAAATG	1016
Qy	1046	AACAGTCTGAGAGCCGAGGACACGGCTGCTATTACTGTACACGAGATATTGGGGTCGT	1105
Db	1017	AACAGCTGAGAGCCGAGGACACGGCTGTTATTWCTGTGCGAGAGGTAGTCCTGGTTAC	1076
Qy	1106	GATGCT-----CACTGGGCCAGGGAACCTGGTACCGTCTCCTCAGCCTCCACC	1156
Db	1077	AGTGATGGACTAACATCTGGGCCAGGGACCCCTGGTACCGTCTCCTCAGCCTCCACC	1136
Qy	1157	AAGGGCCCACGGTCTTCCCCCTGGCACCCCTCCTCAAGAGCACCTTGGGGGACAGCG	1216
Db	1137	AAGGGCCCACGGTCTTCCCCCTGGCACCCCTCCTCAAGAGCACCTTGGGGGACAGCG	1196
Qy	1217	GCCCTGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTGTTGAACTCA	1276
Db	1197	GCCCTGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTGTTGAACTCA	1256
Qy	1277	GGCGCCCTGACCAAGCGCGTGCACACCTTCCGGCTGTCCTACAGTCCTCAGGACTCTAC	1336
Db	1257	GGCGCCCTGACCAAGCGCGTGCACACCTTCCGGCTGTCCTACAGTCCTCAGGACTCTAC	1316
Qy	1337	TCCCTCAGCAGCGTGGTGACCGTGCCTCCAGCAGCTTGGGCACCCAGACCTACATCTGC	1396
Db	1317	TCCCTCAGCAGCGTGGTGACCGTGCCTCCAGCAGCTTGGGCACCCAGACCTACATCTGC	1376
Qy	1397	AACGTGAAT 1405	
Db	1377	AACGTGAAT 1385	

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 15, 2005, 07:45:31 ; Search time 4941 Seconds  
(without alignments)  
10823.780 Million cell updates/sec

Title: US-10-698-041-1

Perfect score: 1405

Sequence: 1 aaaatgcctggctggttcg.....cctacatctgcaacgtgaat 1405

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : EST:\*

1: gb\_est1:\*

2: gb\_est2:\*

3: gb\_htc:\*

4: gb\_est3:\*

5: gb\_est4:\*

6: gb\_est5:\*

7: gb\_est6:\*

8: gb\_gss1:\*

9: gb\_gss2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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Result	Query					Description
No.	Score	Match	Length	DB	ID	
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2	608	43.3	859	4	BG758795	BG758795 602713155
3	603.8	43.0	785	6	CB958366	CB958366 AGENCOURT
4	600.4	42.7	796	6	CB956719	CB956719 AGENCOURT
5	597.8	42.5	734	6	CB957433	CB957433 AGENCOURT
6	596.6	42.5	908	4	BG685179	BG685179 602637065
7	589.2	41.9	731	6	CB985070	CB985070 AGENCOURT
8	588.4	41.9	730	4	BI837183	BI837183 603089959

9	587.4	41.8	958	5	BQ709417	BQ709417 AGENCOURT	
10	585.8	41.7	880	4	BG755003	BG755003 602711509	
11	582.2	41.4	771	6	CB956254	CB956254 AGENCOURT	
12	576.2	41.0	753	4	BG756401	BG756401 602715727	
13	574.8	40.9	765	6	CB957191	CB957191 AGENCOURT	
14	574	40.9	952	4	BG758592	BG758592 602712820	
15	572	40.7	734	6	CB986286	CB986286 AGENCOURT	
16	569.8	40.6	912	4	BF974515	BF974515 602243421	
17	569.4	40.5	880	4	BG757588	BG757588 602714763	
18	565.4	40.2	766	6	CB956983	CB956983 AGENCOURT	
19	564.2	40.2	710	4	BI908471	BI908471 603069231	
20	563.8	40.1	774	4	BM007808	BM007808 603617276	
21	562.2	40.0	875	4	BI518518	BI518518 603061638	
22	560.2	39.9	898	5	BQ708918	BQ708918 AGENCOURT	
23	558.2	39.7	816	4	BI759427	BI759427 603043095	
24	556	39.6	931	4	BG757255	BG757255 602715238	
25	556	39.6	962	4	BI819546	BI819546 603036758	
26	552.6	39.3	934	4	BF974268	BF974268 602243920	
27	552.4	39.3	817	6	CB957285	CB957285 AGENCOURT	
28	550	39.1	770	4	BG530186	BG530186 602558684	
29	548.8	39.1	839	6	CB986712	CB986712 AGENCOURT	
30	547.4	39.0	751	6	CB956880	CB956880 AGENCOURT	
31	543.8	38.7	811	4	BI818338	BI818338 603032958	
32	543	38.6	743	6	CB987308	CB987308 AGENCOURT	
33	542.2	38.6	824	4	BI824708	BI824708 603033871	
34	539.2	38.4	918	4	BG681688	BG681688 602627806	
c	35	537.2	38.2	615	2	AW603541	AW603541 RC0-CN002
	36	536.4	38.2	795	6	CB958667	CB958667 AGENCOURT
	37	535.8	38.1	849	7	CO578998	CO578998 ILLUMIGEN
	38	533	37.9	706	6	CB956177	CB956177 AGENCOURT
	39	533	37.9	740	6	CB958744	CB958744 AGENCOURT
	40	532.4	37.9	726	4	BM007723	BM007723 603617168
	41	532.4	37.9	731	6	CB955606	CB955606 AGENCOURT
	42	531.4	37.8	697	6	CD684481	CD684481 EST1001 h
	43	531	37.8	971	7	CO580847	CO580847 ILLUMIGEN
	44	530	37.7	907	5	BQ708655	BQ708655 AGENCOURT
	45	529.4	37.7	700	4	BG547577	BG547577 602575404

#### ALIGNMENTS

##### RESULT 1

BQ712430

LOCUS BQ712430 995 bp mRNA linear EST 16-JUL-2002  
 DEFINITION AGENCOURT\_8352203 NIH\_MGC\_113 Homo sapiens cDNA clone IMAGE:6277729  
 5', mRNA sequence.

ACCESSION BQ712430  
 VERSION BQ712430.1 GI:21851329  
 KEYWORDS EST.  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 995)

AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

**JOURNAL** Unpublished (1999)  
**COMMENT**
 Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: Dr. Mark Watson  
 cDNA Library Preparation: Rubin Laboratory  
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
 DNA Sequencing by: Agencourt Bioscience Corporation  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
<http://image.llnl.gov>  
 Plate: LLCM2464 row: j column: 02  
 High quality sequence stop: 645.

**FEATURES** Location/Qualifiers  
**source**
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 /organism="Homo sapiens"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:6277729"  
 /lab\_host="DH10B (phage-resistant)"  
 /clone\_lib="NIH\_MGC\_113"  
 /note="Organ: spleen; Vector: pOTB7; Site\_1: XhoI; Site\_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH\_MGC Library."

**ORIGIN**

Query Match 43.8%; Score 615.4; DB 5; Length 995;  
 Best Local Similarity 96.7%; Pred. No. 2.2e-160;  
 Matches 639; Conservative 0; Mismatches 21; Indels 1; Gaps 1;

Qy	41	GAGCTCGTGATGACTCAGTCTCCACTCTCCCTGCCGTACCCCTGGAGAGCCGGCTCC	100
Db	67	GATATTGTGATGACTCAGTCTCCACTCTCCCTGCCGTACCCCTGGAGAGCCGGCTCC	126

Qy	101	ATCTCCTGCAGGTCTAGTCAGAGTCTCCTGCATAGTAATGGATACAACATTTGGATTGG	160
Db	127	ATCTCCTGCAGGTCTAGTCAGAGCCTCCTGCATAGTAATGGATACAACATTTAGATTGG	186

Qy	161	TACCTGCAGAAGCCAGGGCAGTCTCCACAGCTCCTGATCTATTGGGTTAACCGGGCC	220
Db	187	TACCTGCAGAAGCCAGGGCAGTCTCCACAGCTCCTGATCTATTGGGTTAACCGGGCC	246

Qy	221	TCCGGGGTCCCTGACAGGTTCACTGGCAGTGGATCAGGCACAGATTATAACACTGAAATC	280
Db	247	TCCGGGGTCCCTGACAGGTTCACTGGCAGTGGATCAGGCACAGATTACACTGAAATC	306

Qy	281	AGCAGAGTGGAGGCTGAGGATGTTGGGTTATTACTGCATGCAAGGTCTACAAACTCCT	340
Db	307	AGCAGAGTGGAGGCTGAGGATGTTGGGTTATTACTGCATGCAAGCTCTACAAACTCCG	366

Qy	341	AGGACCTTCGCCAAGGGACACGACTGGAGATTAACGAACGTGGCTGCACCATCTGTC	400
Db	367	TACACTTTGCCAGGGACCAAGCTGGAGATCAAACGAACGTGGCTGCACCATCTGTC	426

Qy 401 TTCATCTTCCGCCATCTGATGAGCAGTTGAAATCTGGAAC TGCTCTGTTGTGCCTG 460  
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Db 427 TTCATCTTCCGCCATCTGATGAGCAGTTGAAATCTGGAAC TGCTCTGTTGTGCCTG 486

Qy 461 CTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAAGGTGGATAACGCCCTCAA 520  
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Db 487 CTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAAGGTGGATAACGCCCTCAA 546

Qy 521 TCGGGTAACTCCCAGGAGAGTGTACAGAGCAGGACAGCAAGGACAGCACCTACAGCCTC 580  
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Db 547 TCGGGTAACTCCCAGGAGAGTGTACAGAGCAGGACAGCAAGGACAGCACCTACAGCCTC 606

Qy 581 AGCAGCACCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCGAA 640  
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Db 607 AGCAGCACCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCGAA 666

Qy 641 GTCACCCATCAGGGCCTGAGCTTGCCTGTCACAAAGAGCTTC-AACAGGGGAGAGTGTAA 699  
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Db 667 GTCACCCATCAGGGCCTGAGCTGCCGTCAACAAAGAGCTTCNAACAGGGGAGAGTGTAA 726

Qy 700 G 700  
|  
Db 727 G 727

GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 15, 2005, 12:20:41 ; Search time 121 Seconds  
(without alignments)  
8981.791 Million cell updates/sec

Title: US-10-698-041-1

Perfect score: 2494

Sequence: 1 aaaatgcctggctggttcg.....cctacatctgcaacgtgaat 1405

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5

Ygapop 10.0 , Ygapext 0.5

Fgapop 6.0 , Fgapext 7.0

Delop 6.0 , Delext 7.0

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 4211384

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-

Q=/cgn2\_1/USPTO\_spool/US10698041/runat\_14042005\_155500\_6534/app\_query.fasta\_1.15  
43

-DB=A\_Geneseq\_16Dec04 -QFMT=fastan -SUFFIX=n2p.rag -MINMATCH=0.1 -LOOPCL=0

-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi

-LIST=45 -DOCALIGN=200 -THR\_SCORE=pct -THR\_MAX=100 -THR\_MIN=0 -ALIGN=15

-MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000

-USER=US10698041 @CGN\_1\_1\_149 @runat\_14042005\_155500\_6534 -NCPU=6 -ICPU=3

-NO\_MMAP -LARGEQUERY -NEG\_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG

-DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6

-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : A\_Geneseq\_16Dec04:\*

1: geneseqp1980s:\*

2: geneseqp1990s:\*

3: geneseqp2000s:\*

4: geneseqp2001s:\*

5: geneseqp2002s:\*

6: geneseqp2003as:\*

7: geneseqp2003bs:\*

8: geneseqp2004s:\*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query				Description
		Match	Length	DB	ID	
1	1802	72.3	628	6	ABJ38670	Abj38670 Fab expe
2	1802	72.3	638	6	ADA89103	Ada89103 Phage dis
3	1802	72.3	638	6	ADA90139	Ada90139 Anti-Abet
4	1802	72.3	638	6	ADA91410	Ada91410 Anti-Abet
5	1802	72.3	747	7	ADG74355	Adg74355 MSPRO lig
6	1768.5	70.9	490	3	AAY56637	Aay56637 hCAT1 bin
7	1733	69.5	484	6	ABR55341	Abr55341 Amino aci
8	1676	67.2	537	3	AAB03664	Aab03664 Anti-CD18
9	1675	67.2	698	2	AAW83493	Aaw83493 4D5 Fab m
10	1668.5	66.9	650	5	ABP61241	Abp61241 Phage-dis
11	1665.5	66.8	502	8	ADN97515	Adn97515 Artificia
12	1664.5	66.7	512	8	ADN97497	Adn97497 Artificia
13	1660	66.6	517	8	ADN97495	Adn97495 Artificia
14	1658	66.5	519	8	ADN97493	Adn97493 Artificia
15	1650	66.2	713	8	ADN97491	Adn97491 Artificia
16	1648	66.1	715	8	ADN97489	Adn97489 Artificia
17	1606.5	64.4	487	6	ABO27163	Abo27163 Humanised
18	1282.5	51.4	712	8	ADN97543	Adn97543 Artificia
19	1213.5	48.7	1031	5	ADI46109	Adi46109 Single st
20	1178	47.2	483	8	ADN97549	Adn97549 Artificia
21	1178	47.2	510	8	ADN97519	Adn97519 Artificia
22	1178	47.2	510	8	ADN97501	Adn97501 Artificia
23	1178	47.2	700	8	ADN97521	Adn97521 Artificia
24	1142	45.8	219	8	ADR16817	Adr16817 Human bre
25	1115.5	44.7	500	7	ADD13792	Add13792 Plasmid p
26	1104	44.3	523	3	AAY44994	Aay44994 HD70scFv-
27	1098	44.0	239	7	ADE28405	Ade28405 Human ant
28	1097	44.0	238	8	ADL93650	Adl93650 Human CD4
29	1097	44.0	239	7	ADE28465	Ade28465 Human ant
30	1095	43.9	238	8	ADL93653	Adl93653 Human CD4
31	1094	43.9	238	8	ADL93654	Adl93654 Human CD4
32	1093	43.8	239	7	ADE28421	Ade28421 Human ant
33	1093	43.8	239	7	ADE28521	Ade28521 Human ant
34	1092	43.8	239	7	ADE28397	Ade28397 Human ant
35	1090	43.7	239	7	ADE28469	Ade28469 Human ant
36	1090	43.7	239	7	ADE28477	Ade28477 Human ant
37	1088	43.6	219	7	ADJ32150	Adj32150 Human int
38	1088	43.6	238	8	ADL93649	Adl93649 Human CD4
39	1082	43.4	238	8	ADL93652	Adl93652 Human CD4
40	1079	43.3	239	7	ADE28461	Ade28461 Human ant
41	1077.5	43.2	237	8	ADL93657	Adl93657 Human CD4
42	1077	43.2	239	3	AAY82615	Aay82615 Human PTH
43	1075.5	43.1	237	8	ADL93658	Adl93658 Human CD4
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45	1073	43.0	239	3	AAY82616	Aay82616 Human PTH

#### ALIGNMENTS

RESULT 1

ABJ38670

ID ABJ38670 standard; protein; 628 AA.

XX

AC ABJ38670;

XX

DT 26-JUN-2003 (first entry)

XX

DE Fab expression vector protein SEQ ID No 96.

XX

KW Cytostatic; osteopathic; cerebroprotective; dermatological; enzyme;  
KW antigen binding; receptor protein tyrosine kinase; skeletal dysplasia;  
KW constitutive activation; craniosynostosis; cell proliferative disorder;  
KW achondroplasia; thanatophoric dysplasia; acanthosis nigricans dysplasia;  
KW hypochondroplasia; severe achondroplasia; transitional cell carcinoma;  
KW Muenke coronal craniosynostosis; Crouzin syndrome; acanthosis nigricans;  
KW tumour progression; osteosarcoma; chondrosarcoma; multiple myeloma;  
KW mammary carcinoma; fibroblast growth factor receptor 3; FGFR3 protein;  
KW Fab.

XX

OS Homo sapiens.

XX

PN WO2002102854-A2.

XX

PD 27-DEC-2002.

XX

PF 20-JUN-2002; 2002WO-IB003523.

XX

PR 20-JUN-2001; 2001US-0299187P.

XX

PA (MORP-) MORPHOSYS AG.

PA (PROC-) PROCHON BIOTECH LTD.

XX

PI Thomassen-Wolf E, Borges E, Yayon A, Rom E;

XX

DR WPI; 2003-167489/16.

XX

PT New molecules having the antigen-binding portion of antibodies that block  
PT activation of receptor protein tyrosine kinase, useful for treating or  
PT inhibiting skeletal dysplasias, craniosynostosis or cell proliferative  
PT disorders.

XX

PS Disclosure; Fig 26B; 103pp; English.

XX

CC The invention relates to a novel molecule comprising the antigen binding  
CC portion of an isolated antibody, which has an increased affinity for a  
CC receptor protein tyrosine kinase and which blocks constitutive activation  
CC of the receptor protein tyrosine kinase. The methods and compositions of  
CC the invention are useful for treating or inhibiting a skeletal dysplasia,  
CC craniosynostosis or a cell proliferative disorder. The skeletal dysplasia  
CC is achondroplasia, thanatophoric dysplasia, hypochondroplasia, severe  
CC achondroplasia with developmental delay or acanthosis nigricans  
CC dysplasia. The craniosynostosis disorder is Muenke coronal  
CC craniosynostosis or Crouzin syndrome with acanthosis nigricans. The cell  
CC proliferative disorder is tumour progression that is progression of  
CC transitional cell carcinoma, osteosarcoma, chondrosarcoma, multiple  
CC myeloma or mammary carcinoma. This sequence represents the protein

CC derived from a Fab expression vector relating to the protein tyrosine  
CC kinase inhibitor of the invention  
XX  
SQ Sequence 628 AA;

Alignment Scores:

Pred. No.:	1.3e-132	Length:	628
Score:	1802.00	Matches:	370
Percent Similarity:	83.47%	Conservative:	24
Best Local Similarity:	78.39%	Mismatches:	52
Query Match:	72.25%	Indels:	26
DB:	6	Gaps:	7

US-10-698-041-1 (1-1405) x ABJ38670 (1-628)

Qy	8	CTGGCTGGTTCGCTACCGTGGCCCAGGCAGGCGAGCTCGTGATGACTCAGTCTCCACTC	67
Db	2	LeuAlaGlyPheAlaThrValAlaGln---AlaAspIleValLeuThrGlnSerProAla	20
Qy	68	TCCCTGCCCGTCACCCCTGGAGAGGCCGGCCTCCATCTCCTGCAGGTCTAGTCAGAGTCTC	127
Db	21	ThrLeuSerLeuSerProGlyGluArgAlaThrLeuSerCysArgAlaSerGlnSerVal	40
Qy	128	CTGCATAGTAATGGATAACAATTTGGATTGGTACCTGCAGAACGCCAGGGCAGTCTCCA	187
Db	41	SerSerSer-----TyrLeuAlaTrpTyrGlnGlnLysProGlyGlnAlaPro	56
Qy	188	CAGCTCCTGATCTATTGGGTTTAATCGGGCCTCCGGGTCCCTGACAGGTTAGTGGC	247
Db	57	ArgLeuLeuIleTyrGlyAlaSerSerArgAlaThrGlyValProAlaArgPheSerGly	76
Qy	248	AGTGGATCAGGCACAGATTATACACTGAAAATCAGCAGAGTGGAGGCTGAGGATGTTGGG	307
Db	77	SerGlySerGlyThrAspPheThrLeuThrIleSerSerLeuGluProGluAspPheAla	96
Qy	308	GTTTATTACTGCATGCAAGGTCTACAAACTCCTAGGACCTCGGCCAAGGGACACGACTG	367
Db	97	ValTyrTyrCysGlnGlnHisTyrThrProThrPheGlyGlnGlyThrLysVal	116
Qy	368	GAGATTAAACGAACGTGGCTGCACCATCTGTCTTCATCTTCCGCCATCTGATGAGCAG	427
Db	117	GluIleLysArgThrValAlaAlaProSerValPheIlePheProProSerAspGluGln	136
Qy	428	TTGAAATCTGGAACCTGCCTCTGTTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCC	487
Db	137	LeuLysSerGlyThrAlaSerValValCysLeuLeuAsnAsnPheTyrProArgGluAla	156
Qy	488	AAAGTACAGTGGAAAGGTGGATAACGCCCTCCAATCGGGTAACCTCCAGGAGAGTGTACA	547
Db	157	LysValGlnTrpLysValAspAsnAlaLeuGlnSerGlyAsnSerGlnGluSerValThr	176
Qy	548	GAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCTGACGCTGAGCAAAGCA	607
Db	177	GluGlnAspSerLysAspSerThrTyrSerLeuSerSerThrLeuThrLeuSerLysAla	196
Qy	608	GACTACGAGAACACAAAGTCTACGCCTGCGAAGTCACCCATCAGGGCCTGAGCTTGC	667

Db	197	AspTyrGluLysHisLysValTyrAlaCysGluValThrHisGlnGlyLeuSerSerPro	216
Qy	668	GTCACAAAGAGCTCAACAGGGAGAGTGTAGTTAGATAATTAAATTAGGAGGAATT	727
Db	217	ValThrLysSerPheAsnArgGlyGluAla-----	226
Qy	728	AAAATGAAATACCTATTGCCTACGGCAGCCGCTGGATTGTTATTACTCGCTGCCAACCA	787
Db	227	---MetLysGln-----SerThrIleAlaLeuAlaLeuLeuProLeuLeuPheThrPro	243
Qy	788	---GCCATGGCCCAGGTGCAGCTGCAGGAGTCCGGGGAGGCTTAGTTCAGCCTGGGGGG	844
Db	244	ValThrLysAlaGlnValGlnLeuValGluSerGlyGlyLeuValGlnProGlyGly	263
Qy	845	TCCCTGAGACTCTCCTGTGAAGCCTCTGGATACACCTTCAGCAATTACTGGATGCACTGG	904
Db	264	SerLeuArgLeuSerCysAlaAlaSerGlyPheThrPheSerSerTyrAlaMetSerTrp	283
Qy	905	GTCCGCCAACCTCCAGGGAAAGGGCTGGTGTGGGTCTCACGTATTAAATGAAGATGGGAGT	964
Db	284	ValArgGlnAlaProGlyLysGlyLeuGluTrpValSerAlaIleSerGlySerGlyGly	303
Qy	965	ATCACAAACGACCGGGACTCCGTGAAGGGCCGATCCACCATCTCCAGAGACAACGCCAAG	1024
Db	304	SerThrTyrTyrAlaAspSerValLysGlyArgPheThrIleSerArgAspAsnSerLys	323
Qy	1025	AACACGCTGTATCTGGAAATGAACAGTCTGAGAGGCCGAGGACACGGCTGTCTATTACTGT	1084
Db	324	AsnThrLeuTyrLeuGlnMetAsnSerLeuArgAlaGluAspThrAlaValTyrTyrCys	343
Qy	1085	ACACGAGATATTGGGGCTGTGATGCT-----CACTGGGCCAGGGAAC	1129
Db	344	AlaArg-----TrpGlyGlyAspGlyPheTyrAlaMetAspTyrTrpGlyGlnGlyThr	361
Qy	1130	CTGGTCACCGTCTCCTCAGCCTCCACCAAGGGCCATCGGTCTTCCCCCTGGCACCCCTCC	1189
Db	362	LeuValThrValSerSerAlaSerThrLysGlyProSerValPheProLeuAlaProSer	381
Qy	1190	TCCAAGAGCACCTCTGGGGCACAGCGGCCCTGGCTGCCTGGTCAAGGACTACTTCCC	1249
Db	382	SerLysSerThrSerGlyGlyThrAlaAlaLeuGlyCysLeuValLysAspTyrPhePro	401
Qy	1250	GAACCGGTGACGGTGTCTGGAAACTCAGGCGCCCTGACCAGCGCGTGCACACCTCCCG	1309
Db	402	GluProValThrValSerTrpAsnSerGlyAlaLeuThrSerGlyValHisThrPhePro	421
Qy	1310	GCTGTCTACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGC	1369
Db	422	AlaValLeuGlnSerSerGlyLeuTyrSerLeuSerSerValValThrValProSerSer	441
Qy	1370	AGCTTGGGCACCCAGACCTACATCTGCAACGTGAAT	1405
Db	442	SerLeuGlyThrGlnThrTyrIleCysAsnValAsn	453

us-10-698-041-1.n2p.rapb

GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 15, 2005, 14:34:27 ; Search time 165 Seconds  
(without alignments)  
5660.373 Million cell updates/sec

Title: US-10-698-041-1

Perfect score: 2494

Sequence: 1 aaaaatgcctggctggttcg.....cctacatctgcaacgtgaat 1405

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1421835 seqs, 332370683 residues

Total number of hits satisfying chosen parameters: 2843670

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-DB=Published\_Applications\_AA -QFMT=fastan -SUFFIX=n2p.rapb -MINMATCH=0.1  
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62  
-TRANS=human40.cdi -LIST=45 -DOALIGN=200 -THR\_SCORE=pct -THR\_MAX=100  
-THR\_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=2000000000 -USER=US10698041@CGN\_1\_1\_128@runat\_14042005\_155503\_6665  
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-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published\_Applications\_AA:\*

1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep:\*

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4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep:\*

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6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep:\*

7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep:\*

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 20: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	% Length	DB	ID	Description
1	1699.5	68.1	4852	15	US-10-412-406-33	Sequence 33, Appl
2	1697.5	68.1	663	15	US-10-412-406-32	Sequence 32, Appl
3	1668.5	66.9	491	13	US-10-011-125-2	Sequence 2, Appl
4	1665.5	66.8	502	16	US-10-679-620-88	Sequence 88, Appl
5	1664.5	66.7	512	16	US-10-679-620-70	Sequence 70, Appl
6	1660	66.6	517	16	US-10-679-620-68	Sequence 68, Appl
7	1658	66.5	519	16	US-10-679-620-66	Sequence 66, Appl
8	1650	66.2	713	16	US-10-679-620-64	Sequence 64, Appl
9	1648	66.1	715	16	US-10-679-620-62	Sequence 62, Appl
10	1282.5	51.4	712	16	US-10-679-620-116	Sequence 116, Appl
11	1178	47.2	483	16	US-10-679-620-122	Sequence 122, Appl
12	1178	47.2	510	16	US-10-679-620-74	Sequence 74, Appl
13	1178	47.2	510	16	US-10-679-620-92	Sequence 92, Appl
14	1178	47.2	700	16	US-10-679-620-94	Sequence 94, Appl
15	1142	45.8	219	16	US-10-698-041-4	Sequence 4, Appl
16	1098	44.0	239	15	US-10-292-088-16	Sequence 16, Appl
17	1097	44.0	238	16	US-10-663-244-145	Sequence 145, Appl
18	1097	44.0	239	15	US-10-292-088-56	Sequence 56, Appl
19	1095	43.9	238	16	US-10-663-244-148	Sequence 148, Appl
20	1094	43.9	238	16	US-10-663-244-149	Sequence 149, Appl
21	1093	43.8	239	15	US-10-292-088-32	Sequence 32, Appl
22	1093	43.8	239	15	US-10-292-088-102	Sequence 102, Appl
23	1092	43.8	239	15	US-10-292-088-8	Sequence 8, Appl
24	1090	43.7	239	15	US-10-292-088-64	Sequence 64, Appl
25	1090	43.7	239	15	US-10-292-088-80	Sequence 80, Appl
26	1088	43.6	219	10	US-09-972-656-104	Sequence 104, Appl
27	1088	43.6	238	16	US-10-663-244-144	Sequence 144, Appl
28	1082	43.4	238	16	US-10-663-244-147	Sequence 147, Appl
29	1079	43.3	239	15	US-10-292-088-40	Sequence 40, Appl
30	1077.5	43.2	237	16	US-10-663-244-152	Sequence 152, Appl
31	1075.5	43.1	237	16	US-10-663-244-146	Sequence 146, Appl
32	1075.5	43.1	237	16	US-10-663-244-153	Sequence 153, Appl
33	1067	42.8	239	15	US-10-108-260A-4028	Sequence 4028, Appl
34	1060	42.5	239	10	US-09-992-600A-8	Sequence 8, Appl
35	1060	42.5	239	10	US-09-924-340-8	Sequence 8, Appl
36	1060	42.5	239	10	US-09-992-095B-8	Sequence 8, Appl
37	1060	42.5	239	10	US-09-999-570-8	Sequence 8, Appl
38	1060	42.5	239	14	US-10-000-489-8	Sequence 8, Appl
39	1060	42.5	239	14	US-10-000-986-8	Sequence 8, Appl
40	1060	42.5	239	14	US-10-154-678-8	Sequence 8, Appl
41	1060	42.5	239	17	US-10-838-854-8	Sequence 8, Appl
42	1052.5	42.2	220	9	US-09-822-698A-24	Sequence 24, Appl
43	1048	42.0	247	15	US-10-466-164-69	Sequence 69, Appl
44	1047	42.0	219	10	US-09-972-656-106	Sequence 106, Appl
45	1044	41.9	239	15	US-10-404-724-12	Sequence 12, Appl

RESULT 15  
 US-10-698-041-4  
 ; Sequence 4, Application US/10698041  
 ; Publication No. US20040151724A1

GENERAL INFORMATION:  
 APPLICANT: Coronella-Wood, Julia  
 TITLE OF INVENTION: Antibody Fab Fragments Specific for Breast Cancer  
 FILE REFERENCE: 5051.057  
 CURRENT APPLICATION NUMBER: US/10/698,041  
 CURRENT FILING DATE: 2003-10-30  
 PRIOR APPLICATION NUMBER: US 60/423,052  
 PRIOR FILING DATE: 2002-10-31  
 NUMBER OF SEQ ID NOS: 6  
 SOFTWARE: PatentIn version 3.2  
 SEQ ID NO 4  
 LENGTH: 219  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-10-698-041-4

## Alignment Scores:

Pred. No.:	6.37e-69	Length:	219
Score:	1142.00	Matches:	219
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	45.79%	Indels:	0
DB:	16	Gaps:	0

US-10-698-041-1 (1-1405) x US-10-698-041-4 (1-219)

Qy	41 GAGCTCGTGATGACTCAGTCCTCACTCTCCCTGCCCGTCACCCCTGGAGAGCCGGCTCC	100
Db	1 GluLeuValMetThrGlnSerProLeuSerLeuProValThrProGlyGluProAlaSer	20
Qy	101 ATCTCCTGCAGGTCTAGTCAGAGTCTCCTGCATAGTAATGGATACAACATTTGGATTGG	160
Db	21 IleSerCysArgSerSerGlnSerLeuLeuHisSerAsnGlyTyrAsnTyrLeuAspTrp	40
Qy	161 TACCTGCAGAACGCCAGGGCAGTCTCCACAGCTCCTGATCTATTGGTTTAATCGGGCC	220
Db	41 TyrLeuGlnLysProGlyGlnSerProGlnLeuLeuIleTyrLeuGlyPheAsnArgAla	60
Qy	221 TCCGGGGTCCCTGACAGGTTCACTGGCAGTGGATCAGGCACAGATTATACACTGAAAATC	280
Db	61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspTyrThrLeuLysIle	80
Qy	281 AGCAGAGTGGAGGCTGAGGATGTTGGGGTTATTACTGCATGCAAGGTCTACAAACTCCT	340
Db	81 SerArgValGluAlaGluAspValGlyValTyrTyrCysMetGlnGlyLeuGlnThrPro	100
Qy	341 AGGACCTTCGGCCAAGGGACACGACTGGAGATTAAACGAACACTGGCTGCACCATCTGTC	400
Db	101 ArgThrPheGlyGlnGlyThrArgLeuGluIleLysArgThrValAlaAlaProSerVal	120
Qy	401 TTCACTTCCC GCCATCTGATGAGCAGTTGAAATCTGGAAC TGCCCTGTGTTGTGCCTG	460
Db	121 PheIlePheProProSerAspGluGlnLeuLysSerGlyThrAlaSerValValCysLeu	140
Qy	461 CTGAATAACTCTATCCCAGAGAGGCCAAAGTACAGTGGAGGTGGATAACGCCCTCAA	520
Db	141 LeuAsnAsnPheTyrProArgGluAlaLysValGlnTrpLysValAspAsnAlaLeuGln	160
Qy	521 TCGGGTAACCTCCAGGAGAGTGTACAGAGCAGGACAGCAAGGACAGCACCTACAGCCTC	580
Db	161 SerGlyAsnSerGlnGluSerValThrGluGlnAspSerLysAspSerThrTyrSerLeu	180
Qy	581 AGCAGCACCC TGACGCTGAGCAAAGCAGACTACGAGAACACAAAGTCTACGCC TGC GAA	640

us-10-698-041-1.n2p.rapb

Db 181 SerSerThrLeuThrLeuSerLysAlaAspTyrGluLysHisLysValTyrAlaCysGlu 200  
Qy 641 GTCACCCATCAGGGCCTGAGCTTGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGT 697  
Db 201 ValThrHisGlnGlyLeuSerLeuProValThrLysSerPheAsnArgGlyGluCys 219

Search completed: April 15, 2005, 14:54:48  
Job time : 190 secs

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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 15, 2005, 14:02:16 ; Search time 31.5 Seconds  
(without alignments)  
8583.146 Million cell updates/sec

Title: US-10-698-041-1  
Perfect score: 2494  
Sequence: 1 aaaatgcctggctggttcg.....cctacatctgcaacgtgaat 1405

Scoring table: BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 566832

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Command line parameters:

-MODEL=frame+\_n2p.model -DEV=xlh  
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Q=/cgn2\_1/USPTO\_spool/US10698041/runat\_14042005\_155501\_6556/app\_query.fasta\_1.15  
43  
-DB=PIR\_79 -QFMT=fastan -SUFFIX=n2p.rpr -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0  
-UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45  
-DOCALIGN=200 -THR\_SCORE=pct -THR\_MAX=100 -THR\_MIN=0 -ALIGN=15 -MODE=LOCAL  
-OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US10698041\_@CGN\_1\_1\_37\_@runat\_14042005\_155501\_6556 -NCPU=6 -ICPU=3  
-NO\_MMAP -LARGEQUERY -NEG\_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : PIR\_79:  
1: pir1:  
2: pir2:  
3: pir3:  
4: pir4:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query				Description
		Match	Length	DB	ID	
1	897	36.0	215	2	JE0242	Ig kappa chain NIG
2	874	35.0	215	2	JE0244	Ig kappa chain NIG
3	856	34.3	215	2	JE0243	Ig kappa chain NIG
4	848.5	34.0	216	2	JE0241	Ig kappa chain Am3
5	843	33.8	215	2	A23746	Ig kappa chain V-I
6	800	32.1	219	2	S52028	Ig kappa chain - m
7	800	32.1	219	2	PC4203	Ig kappa chain (mo
8	789	31.6	219	2	S16112	Ig kappa chain V r
9	785	31.5	219	2	S38865	Ig kappa chain - m
10	778	31.2	217	2	S42772	Ig kappa chain - m
11	756	30.3	225	2	JL0029	Ig kappa chain pre
12	741.5	29.7	240	2	S06084	Ig kappa chain pre
13	728	29.2	220	2	A49444	Ig gamma-1 heavy c
14	702.5	28.2	220	2	A31790	Ig kappa chain V r
15	693.5	27.8	218	2	S68241	Ig kappa chain V r
16	680.5	27.3	218	2	JC5810	monoclonal antibod
17	677.5	27.2	214	2	S68212	Ig kappa chain (Ma
18	665	26.7	548	2	S38864	Ig epsilon chain C
19	660.5	26.5	241	2	S69131	Ig heavy chain (DO
20	655.5	26.3	210	2	A56169	Ig kappa chain V r
21	655.5	26.3	213	2	S68213	Ig heavy chain (Ma
22	655.5	26.3	234	2	S01320	Ig kappa chain pre
23	655	26.3	197	2	S29593	Ig kappa chain (WM
24	649.5	26.0	230	2	S33161	Ig kappa chain - s
25	646.5	25.9	234	2	S14237	Ig kappa chain pre
26	639.5	25.6	225	2	S37484	Ig kappa chain - m
27	633	25.4	178	2	PT0219	Ig kappa chain V-C
28	627	25.1	235	2	S25058	Ig kappa chain - m
29	626	25.1	444	2	PC4436	monoclonal antibod
30	621	24.9	220	2	S68211	Ig heavy chain (Ma
31	600.5	24.1	254	2	B31790	Ig heavy chain V r
32	598.5	24.0	246	2	S38950	Ig gamma chain - m
33	598.5	24.0	446	2	S40295	Ig gamma-2a chain
34	594	23.8	135	2	S40342	Ig kappa chain - h
35	594	23.8	135	2	S52059	JC-kappa protein -
36	593.5	23.8	469	2	S37483	Ig gamma-2a chain
37	593	23.8	121	2	S40371	Ig kappa chain - h
38	592	23.7	474	1	G2MS11	Ig gamma-2b chain
39	576	23.1	214	2	PC4202	monoclonal antibod
40	571	22.9	136	2	S40357	Ig kappa chain V-J
41	570.5	22.9	221	2	S49220	Ig gamma-1 chain -
42	565	22.7	470	2	S22080	Ig heavy chain pre
43	560	22.5	117	1	K2HUGM	Ig kappa chain pre
44	559	22.4	143	2	S23624	Ig heavy chain V r
45	557	22.3	132	2	S26882	Ig kappa chain V r

us-10-698-041-1.n2p.rup

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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 15, 2005, 12:25:16 ; Search time 145.5 Seconds  
(without alignments)  
9889.639 Million cell updates/sec

Title: US-10-698-041-1

Perfect score: 2494

Sequence: 1 aaaatgcctggctggttcg.....cctacatctgcaacgtgaat 1405

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 3224756

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-DB=UniProt\_03 -QFMT=fastan -SUFFIX=n2p.rup -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0  
-UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45  
-DOCALIGN=200 -THR\_SCORE=pct -THR\_MAX=100 -THR\_MIN=0 -ALIGN=15 -MODE=LOCAL  
-OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US10698041@CGN\_1\_1\_197@runat\_14042005\_155501\_6542 -NCPU=6 -ICPU=3  
-NO\_MMAP -LARGEQUERY -NEG\_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : UniProt\_03:  
1: uniprot\_sprot:  
2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1097	44.0	239	2	Q8NEK0	Q8nek0 homo sapien
2	1070.5	42.9	240	2	Q6PIH6	Q6pih6 homo sapien
3	992	39.8	239	2	Q8TCDO	Q8tcd0 homo sapien
4	992	39.8	239	2	Q6P491	Q6p491 homo sapien
5	904.5	36.3	236	2	Q6PIL8	Q6pil8 homo sapien
6	888	35.6	235	2	Q6GMV9	Q6gmv9 homo sapien

## us-10-698-041-1.n2p.rup

7	888	35.6	470	2	Q6PJJA4	Q6pja4	homo	sapien
8	878	35.2	235	2	Q6PJF2	Q6pjf2	homo	sapien
9	877.5	35.2	236	2	Q6P5S8	Q6p5s8	homo	sapien
10	876	35.1	478	2	Q6PI81	Q6pi81	homo	sapien
11	873.5	35.0	466	2	Q6N096	Q6n096	homo	sapien
12	865	34.7	235	2	Q6GMW0	Q6gmw0	homo	sapien
13	864.5	34.7	472	2	Q6N089	Q6n089	homo	sapien
14	852.5	34.2	236	2	Q6GMW1	Q6gmw1	homo	sapien
15	852	34.2	465	2	Q6P6C4	Q6p6c4	homo	sapien
16	849.5	34.1	234	2	Q7Z473	Q7z473	homo	sapien
17	846.5	33.9	236	2	Q6GMX0	Q6gmx0	homo	sapien
18	845	33.9	466	2	Q6IN78	Q6in78	homo	sapien
19	842.5	33.8	473	2	Q6MZV7	Q6mzv7	homo	sapien
20	838.5	33.6	236	2	Q6GMX8	Q6gmx8	homo	sapien
21	838.5	33.6	236	2	Q7Z3Y4	Q7z3y4	homo	sapien
22	836	33.5	544	2	Q6PJ95	Q6pj95	homo	sapien
23	835.5	33.5	236	2	Q6PIT5	Q6pit5	homo	sapien
24	835	33.5	236	2	Q6ZP85	Q6zp85	homo	sapien
25	834	33.4	475	2	Q6MZQ6	Q6mzq6	homo	sapien
26	833.5	33.4	236	2	Q6PIH7	Q6pih7	homo	sapien
27	829.5	33.3	464	2	Q6MZU6	Q6mzu6	homo	sapien
28	827	33.2	470	2	Q7Z5W1	Q7z5w1	homo	sapien
29	818.5	32.8	236	2	Q6GMX9	Q6gmx9	homo	sapien
30	815.5	32.7	475	2	Q6GMW7	Q6gmw7	homo	sapien
31	812	32.6	473	2	Q6P055	Q6p055	homo	sapien
32	808.5	32.4	236	2	Q6PIH4	Q6pih4	homo	sapien
33	807	32.4	480	2	Q6N094	Q6n094	homo	sapien
34	792.5	31.8	521	2	Q8N4Y9	Q8n4y9	homo	sapien
35	789	31.6	219	2	Q65ZC0	Q65zc0	mus	musculu
36	785.5	31.5	482	2	Q7Z351	Q7z351	homo	sapien
37	772	31.0	475	2	Q6N095	Q6n095	homo	sapien
38	765	30.7	481	2	Q6N097	Q6n097	homo	sapien
39	761.5	30.5	465	2	Q6GMX6	Q6gmx6	homo	sapien
40	759	30.4	493	2	Q68CN4	Q68cn4	homo	sapien
41	741	29.7	476	2	Q6GMX1	Q6gmx1	homo	sapien
42	736.5	29.5	518	2	Q6N030	Q6n030	homo	sapien
43	734.5	29.5	469	2	Q7Z7P5	Q7z7p5	homo	sapien
44	725	29.1	480	2	Q6PJF1	Q6pjf1	homo	sapien
45	702	28.1	417	2	Q6N093	Q6n093	homo	sapien

us-10-698-041-1.rni

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 15, 2005, 08:20:56 ; Search time 263 Seconds  
(without alignments)  
8741.326 Million cell updates/sec

Title: US-10-698-041-1

Perfect score: 1405

Sequence: 1 aaaaatgcctggctggttcg.....cctacatctgcaacgtgaat 1405

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_NA:  
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2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq:/\*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:/\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:/\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq:/\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq:/\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	958.4	68.2	5925	4	US-09-315-926A-78	Sequence 78, Appl
2	901.4	64.2	4691	3	US-08-591-632-43	Sequence 43, Appl
3	901.4	64.2	4691	3	US-09-611-451-43	Sequence 43, Appl
4	901.4	64.2	6166	3	US-08-591-632-51	Sequence 51, Appl
5	901.4	64.2	6166	3	US-09-611-451-51	Sequence 51, Appl
6	779.8	55.5	6563	3	US-09-027-449-61	Sequence 61, Appl
7	779.8	55.5	6563	3	US-08-804-444A-61	Sequence 61, Appl
8	779.8	55.5	6563	3	US-09-026-985-61	Sequence 61, Appl
9	779.8	55.5	6563	3	US-09-121-952A-61	Sequence 61, Appl
10	779.8	55.5	6563	3	US-09-234-340A-61	Sequence 61, Appl
11	747.4	53.2	2178	1	US-08-463-587A-24	Sequence 24, Appl
12	747.4	53.2	2178	2	US-08-463-667A-2	Sequence 2, Appl
13	747.4	53.2	2178	3	US-08-923-854-24	Sequence 24, Appl
14	747.4	53.2	2178	5	PCT-US91-09133-25	Sequence 25, Appl
15	739.6	52.6	1951	4	US-10-011-125A-1	Sequence 1, Appl
16	738.6	52.6	2143	3	US-09-097-309-5	Sequence 5, Appl
17	738.6	52.6	2143	3	US-09-097-171A-9	Sequence 9, Appl

us-10-698-041-1.rni						
18	738.6	52.6	2143	3	US-09-460-587-5	Sequence 5, Appli
19	738.6	52.6	2143	4	US-09-940-166A-5	Sequence 5, Appli
20	738.6	52.6	6550	3	US-09-422-712B-1	Sequence 1, Appli
21	738.6	52.6	6550	3	US-09-607-756-1	Sequence 1, Appli
22	734.6	52.3	6127	2	US-08-887-352B-1	Sequence 1, Appli
23	734.6	52.3	6127	3	US-09-109-207C-1	Sequence 1, Appli
24	734.6	52.3	6127	3	US-09-296-005-1	Sequence 1, Appli
25	734.6	52.3	6127	4	US-09-920-171-1	Sequence 1, Appli
26	734.6	52.3	6127	4	US-09-716-028-1	Sequence 1, Appli
27	734.6	52.3	6127	4	US-10-113-996-1	Sequence 1, Appli
28	632.2	45.0	3169	3	US-08-630-820-5	Sequence 5, Appli
29	632.2	45.0	3169	4	US-09-273-453-5	Sequence 5, Appli
30	604.6	43.0	968	4	US-10-000-489-7	Sequence 7, Appli
31	566.4	40.3	1632	2	US-08-792-824-8	Sequence 8, Appli
32	566.4	40.3	1644	2	US-08-792-824-11	Sequence 11, Appli
33	564.8	40.2	1672	2	US-08-792-824-2	Sequence 2, Appli
34	564.8	40.2	4435	2	US-08-792-824-1	Sequence 1, Appli
35	542.8	38.6	720	3	US-08-487-550-5	Sequence 5, Appli
36	542.8	38.6	720	4	US-09-526-098-5	Sequence 5, Appli
37	542.8	38.6	720	4	US-09-383-916-5	Sequence 5, Appli
38	542.4	38.6	1641	2	US-08-792-824-5	Sequence 5, Appli
39	522.8	37.2	729	1	US-08-398-613A-55	Sequence 55, Appli
40	522.8	37.2	729	1	US-08-398-612A-55	Sequence 55, Appli
41	522.8	37.2	729	1	US-08-398-611A-55	Sequence 55, Appli
42	522.8	37.2	729	1	US-08-396-851A-55	Sequence 55, Appli
43	522.8	37.2	729	2	US-08-491-334A-55	Sequence 55, Appli
44	522.8	37.2	729	3	US-09-027-449-41	Sequence 41, Appli
45	522.8	37.2	729	3	US-08-804-444A-41	Sequence 41, Appli

#### ALIGNMENTS

#### RESULT 1

US-09-315-926A-78

; Sequence 78, Application US/09315926A

Patent No. 6498027

; GENERAL INFORMATION:

APPLICANT: Es van, Helmuth

APPLICANT: Havenga, Menzo

APPLICANT: Verlinden, Stefan

TITLE OF INVENTION: TARGETED DELIVERY THROUGH A CATIONIC AMINO ACID TRANSPORTER

FILE REFERENCE: 2183-4080US

CURRENT APPLICATION NUMBER: US/09/315,926A

CURRENT FILING DATE: 1999-05-20

PRIOR APPLICATION NUMBER: EP 99201593.3

PRIOR FILING DATE: 1999-05-20

PRIOR APPLICATION NUMBER: EP 98201693.3

PRIOR FILING DATE: 1998-05-20

NUMBER OF SEQ ID NOS: 81

SOFTWARE: PatentIn version 3.0

SEQ ID NO 78

LENGTH: 5925

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

; NAME/KEY: misc\_feature

OTHER INFORMATION: Description of Artificial Sequence: phage

NAME/KEY: primer\_bind

LOCATION: (1)..(5925)

; OTHER INFORMATION: /note="Nucleotide hcAT1 encoding sequence

US-09-315-926A-78

## us-10-698-041-1.rni

Query Match 68.2%; Score 958.4; DB 4; Length 5925;  
 Best Local Similarity 83.5%; Pred. No. 1.2e-257;  
 Matches 1147; Conservative 0; Mismatches 196; Indels 31; Gaps 4;

Qy	51	TGACTCAGTCTCCACTCTCCCTGCCCGTCACCCCTGGAGAGGCCGGCCTCCATCTCCTGCA	110
Db	2339	TCACGCAGTCTCCAGGCATCCTGTCTTGCTCCGGGGCAGGAGCCACCCCTCTCCTGCA	2398
Qy	111	GGTCTAGTCAGAGTCTCTGCATAGTAATGGATACAACTATTGGATTGGTACCTGCAGA	170
Db	2399	GGGCCAGTCAGAGTGTCAAGCAGCAGAAC-----TTAGCCTGGTACCAAGCAGA	2446
Qy	171	AGCCAGGGCAGTCCACAGCTCCTGATCTATTGGTTTAATCGGGCTCCGGGTCC	230
Db	2447	AACCTGGCCAGGCTCCAGGCTCCTCATCTATGGTGTATCCAACAGGGCCACTGGCGTCC	2506
Qy	231	CTGACAGGTTCACTGGCAGTGGATCAGGCACAGATTACACTGAAAATCAGCAGAGTGG	290
Db	2507	CAGACAGGTTCACTGGCAGTGGCTGGGCAAGACTCACTCTCACCATCAACAGACTGG	2566
Qy	291	AGGCTGAGGATGTTGGGTTTATTACTGCATGCAAGGTCTACAAACTCCTAGGACCTTCG	350
Db	2567	AGCCTGAAGATTTGCGGTGTATTACTGTCAGCGGTATGGCAGGTCACTGTGGACGTTG	2626
Qy	351	GCCAAGGGACACGACTGGAGATTAAAC---GAACCTGTGGCTGCACCCTGTCTTCATCT	407
Db	2627	GTCAAGGGACCAAGGTGGAGATCAAACGTGGAACCTGTGGCTGCACCCTGTCTTCATCT	2686
Qy	408	TCCC GCCATCTGATGAGCAGTTGAAACTGGAACTGCCTCTGTTGTGCCTGCTGAATA	467
Db	2687	TCCC GCCATCTGATGAGCAGTTGAAACTGGAACTGCCTCTGTTGTGCCTGCTGAATA	2746
Qy	468	ACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAAGGTGGATAACGCCCTCAATCGGGTA	527
Db	2747	ACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAAGGTGGATAACGCCCTCAATCGGGTA	2806
Qy	528	ACTCCCAGGAGAGTGTCAAGAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCA	587
Db	2807	ACTCCCAGGAGAGTGTCAAGAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCA	2866
Qy	588	CCCTGACGCTGAGCAAAGCAGACTACGGAGAAACACAAAGTCAAGCCTGCGAAGTCACCC	647
Db	2867	CCCTGACGCTGAGCAAAGCAGACTACGGAGAAACACAAAGTCAAGCCTGCGAAGTCACCC	2926
Qy	648	ATCAGGGCTGAGCTTGCCGTACAAAGAGCTTCAACAGGGGAGAGTGTAA-----G	700
Db	2927	ATCAGGGCTGAGTTACCGGTGACAAAGAGCTTCAACAGGGGAGAGTGTAAATAAGGCG	2986
Qy	701	TTCTAGATAATTAAATTAGGAGGAATTAAAATGAAATACCTATTGCCTACGGCAGCCGCT	760
Db	2987	CGCCAATTCTATTCAAGGAGACAGTCATAATGAAATACCTATTGCCTACGGCAGCCGCT	3046
Qy	761	GGATTGTTATTACTCGCTGCCCAACCAGCCATGCCAGGTGCAGCTGCAGGAGTCCGGG	820
Db	3047	GGATTGTTATTACTCGCGGCCAGCCGCCATGCCAGGTCCAGCTGGTGCAGTCTGGG	3106
Qy	821	GGAGGCTTAGTTAGCCTGGGGTCCCTGAGACTCTCCTGTGAAGCCTCTGGATACACC	880
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us-10-698-041-1.rni

Qy	941	TCACGTATTAATGAAGATGGGAGTATCACAAACGACGCCGACTCCGTGAAGGGCCGATCC	1000
Db	3227	GCAGTTATATCATATGATGGAAGCAATAAATACACGCTGACTCCGTGAAGGGCCGATTC	3286
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Qy	1061	GAGGACACGGCTGTCTATTACTGTACACGAGATATTGGGG-----GTCGTGATGCT	1111
Db	3347	GAGGACACGGCTGTGTATTACTGTGCGAGAGGGATTACAGTAACTAAATCACGATTGAC	3406
Qy	1112	CACTGGGCCAGGGAACCCCTGGTACCGTCTCCTCAGCCTCCACCAAGGGCCATCGGTC	1171
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Qy	1172	TTCCCCCTGGCACCCCTCCAAAGAGCACCTCTGGGGCACAGCGCCCTGGCTGCCTG	1231
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Qy	1232	GTCAAGGACTACTTCCCCGAACCGGTGACGGTGTGTTGAACTCAGGCGCCCTGACCAAGC	1291
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Qy	1292	GGCGTGCACACCTTCCCGGCTGTCTACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTG	1351
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us-10-698-041-1.n2p.rai

GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 15, 2005, 14:10:36 ; Search time 27.5 Seconds  
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7627.777 Million cell updates/sec

Title: US-10-698-041-1

Perfect score: 2494

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
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Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 1027090

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1060	42.5	239	4	US-10-000-489-8	Sequence 8, Appli

us-10-698-041-1.n2p.ra1						
3	1005.5	40.3	239	3	US-08-487-550-6	Sequence 6, Appli
4	1005.5	40.3	239	4	US-09-526-098-6	Sequence 6, Appli
5	1005.5	40.3	239	4	US-09-383-916-6	Sequence 6, Appli
6	982.5	39.4	248	4	US-09-315-926A-80	Sequence 80, Appl
7	979	39.3	238	4	US-09-698-705-10	Sequence 10, Appl
8	960	38.5	242	1	US-08-398-613A-56	Sequence 56, Appl
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10	960	38.5	242	1	US-08-398-611A-56	Sequence 56, Appl
11	960	38.5	242	2	US-08-491-334A-56	Sequence 56, Appl
12	960	38.5	242	3	US-09-027-449-42	Sequence 42, Appl
13	960	38.5	242	3	US-08-804-444A-42	Sequence 42, Appl
14	960	38.5	242	3	US-09-026-985-42	Sequence 42, Appl
15	960	38.5	242	4	US-09-121-952A-42	Sequence 42, Appl
16	960	38.5	242	4	US-09-234-340A-42	Sequence 42, Appl
17	951.5	38.2	218	4	US-09-698-705-12	Sequence 12, Appl
18	927	37.2	599	1	US-08-442-542-18	Sequence 18, Appl
19	927	37.2	599	3	US-08-765-469-18	Sequence 18, Appl
20	915.5	36.7	240	4	US-09-301-593-36	Sequence 36, Appl
21	907	36.4	241	2	US-07-916-098A-56	Sequence 56, Appl
22	904	36.2	242	3	US-09-027-449-51	Sequence 51, Appl
23	904	36.2	242	3	US-09-027-449-56	Sequence 56, Appl
24	904	36.2	242	3	US-09-027-449-62	Sequence 62, Appl
25	904	36.2	242	3	US-08-804-444A-51	Sequence 51, Appl
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28	904	36.2	242	3	US-09-026-985-56	Sequence 56, Appl
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38	902	36.2	239	4	US-09-627-896B-22	Sequence 22, Appl
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## ALIGNMENTS

### RESULT 1

US-10-011-125A-2

Sequence 2, Application US/10011125A

Patent No. 6828121

#### GENERAL INFORMATION:

APPLICANT: Chen, Christina Yu-Ching

TITLE OF INVENTION: BACTERIAL HOST STRAINS

FILE REFERENCE: P1804R1

CURRENT APPLICATION NUMBER: US/10/011,125A

CURRENT FILING DATE: 2001-12-07

PRIOR APPLICATION NUMBER: US 60/256,162

PRIOR FILING DATE: 2000-12-14

NUMBER OF SEQ ID NOS: 12

SEQ ID NO 2

LENGTH: 491

TYPE: PRT

us-10-698-041-1.n2p.rai

; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Sequence is synthesized.  
; Patent No. 6828121  
; US-10-011-125A-2

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Score: 1668.50 Matches: 340  
Percent Similarity: 78.94% Conservative: 31  
Best Local Similarity: 72.34% Mismatches: 62  
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US-10-698-041-1 (1-1405) x US-10-011-125A-2 (1-491)

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Qy	98	TCCATCTCCTGCAGGTCTAGTCAGAGTCCTGCATAGTAATGGATACAACATTGGAT	157
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Qy	218	GCCTCCGGGGTCCCTGACAGGTTCACTGGCAGTGGATCAGGCACAGATTATACTGAAA	277
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Qy	338	CCTAGGACCTTCGCCAAGGGACACGACTGGAGATTAAACGAACGTGGCTGCACCATCT	397
Db	118	ProTrpThrPheGlyGlnGlyThrLysValGluIleLysArgThrValAlaAlaProSer	137
Qy	398	GTCTTCATCTCCGCCATCTGATGAGCAGTTGAAATCTGGAAC TGCTCTGTTGTGTC	457
Db	138	ValPheIlePheProProSerAspGluGlnLeuLysSerGlyThrAlaSerValValCys	157
Qy	458	CTGCTGAATAACTCTATCCCAGAGAGGCCAAAGTACAGTGGAAAGGTGGATAACGCCCTC	517
Db	158	LeuLeuAsnAsnPheTyrProArgGluAlaLysValGlnTrpLysValAspAsnAlaLeu	177
Qy	518	CAATCGGGTAACTCCCAGGAGAGTGTACAGAGCAGGACAGCAAGGACAGCACCTACAGC	577
Db	178	GlnSerGlyAsnSerGlnGluSerValThrGluGlnAspSerLysAspSerThrTyrSer	197
Qy	578	CTCAGCAGCACCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCCTG	637
Db	198	LeuSerSerThrLeuThrLeuSerLysAlaAspTyrGluLysHisLysValTyrAlaCys	217
Qy	638	GAAGTCACCCATCAGGGCTGAGCTTGCCGTACAAAGAGCTTCAACAGGGGAGAGTGT	697
Db	218	GluValThrHisGlnGlyLeuSerSerProValThrLysSerPheAsnArgGlyGluCys	237
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Qy	758	GCTGGATTGTTATTACTCGCT---GCCCAACCAGCCATGGCCCAGGTGCAGCTGCAGGAG	814
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Qy	815	TCCGGGGGAGGCTTAGTTCAGCCTGGGGGTCCCTGAGACTCTCCTGTGAAGCCTCTGGA	874
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Qy	875	TACACCTTCAGCAATTACTGGATGCACTGGGTCCGCCAACCTCCAGGGAGGGGCTGGTG	934
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us-10-698-041-1.rng

GenCore version 5.1.6  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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4	985.8	70.2	1424	13	ADR16815		Adr16815 Human bre
5	958.4	68.2	5924	3	AAZ38921		Aaz38921 hCAT1 bin
6	958.4	68.2	5925	3	AAZ38770		Aaz38770 hCAT1 clo
7	937.8	66.7	2186	10	ADD26469		Add26469 Phagmid
8	937.8	66.7	2790	10	ADD26467		Add26467 Phagmid
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us-10-698-041-1.rng							
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18	851.8	60.6	1551	12	ADN97496	Adn97496	Artificia
19	834.8	59.4	1566	12	ADN97494	Adn97494	Artificia
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21	820.8	58.4	1572	12	ADN97492	Adn97492	Artificia
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## RESULT 2

ACC00496

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AC ACC00496;

XX

DT 10-JUL-2003 (first entry)

XX

DE Humanised F3 Fab insert coding sequence.

XX

KW Cytostatic; Platelet-Derived Growth Factor; PDGF; antibody; tumour; cancer; F3 antibody; gene; ds.

XX

OS Synthetic.

XX

FH Key Location/Qualifiers

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